

**IN THE CLAIMS**

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38. (currently amended) Glass for a light filter having a coefficient of thermal expansion within a range from  $90 \times 10^{-7}/^{\circ}\text{C}$  to  $120 \times 10^{-7}/^{\circ}\text{C}$  within a temperature range from  $-20^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$  and having a composition which comprises, in weight percent:

one or more ingredients selected from the group consisting of  $\text{SiO}_2$ ,  $\text{B}_2\text{O}_3$  and  $\text{P}_2\text{O}_5$  in the total amount of 35 - 55%, wherein the upper limit of  $\text{SiO}_2$  is 41.5%;

one or more ingredients selected from the group consisting of  $\text{TiO}_2$ ,  $\text{La}_2\text{O}_3$ ,  $\text{ZrO}_2$ ,  $\text{Nb}_2\text{O}_5$ ,  $\text{Ta}_2\text{O}_5$ ,  $\text{WO}_3$  and  $\text{Y}_2\text{O}_3$  in the total amount of 20 - 45%, wherein  $\text{TiO}_2$  is included within a range from 0 to 30% and  $\text{ZrO}_2$  is included within a range from 0 to 5%;

one or more ingredients selected from the group consisting of  $\text{MgO}$ ,  ~~$\text{CaO}$~~ ,  $\text{SrO}$ ,  $\text{BaO}$  and  $\text{ZnO}$  in the total amount of 3 - 20%;

$\text{Na}_2\text{O}$  within a range from 0 to 14.5%; and

one or both of  $\text{Sb}_2\text{O}_3$  and  $\text{As}_2\text{O}_3$  in the total amount of 0 - 1%,

said glass being substantially free of  $\text{Al}_2\text{O}_3$ ,  $\text{CdO}$ ,  $\text{CaO}$  and  $\text{PbO}$ .

39. (previously presented) Glass as defined in claim 38 which has Young's modulus of 75GPa or over.

40. (previously presented) Glass as defined in claim 38 which has Vickers hardness of 550 or over.

41. (previously presented) Glass as defined in claim 38 wherein light transmittance for plate thickness of 10mm is 90% or over within a wavelength range from 950nm to

1600nm.

42. (previously presented) A light filter which is made by forming a dielectric film on glass as defined in claim 38.

43. (currently amended) Glass for a light filter having a coefficient of thermal expansion within a range from  $90 \times 10^{-7}/^{\circ}\text{C}$  to  $120 \times 10^{-7}/^{\circ}\text{C}$  within a temperature range from  $-20^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$  and having a composition which comprises, in weight percent:

one or more ingredients selected from the group consisting of  $\text{SiO}_2$ ,  $\text{B}_2\text{O}_3$  and  $\text{P}_2\text{O}_5$  in the total amount of 35 - 55%, wherein the upper limit of  $\text{SiO}_2$  is 41.5%;

$\text{TiO}_2$  within a range from 0 to 30%;

$\text{ZrO}_2$  within a range from 0 to 5%;

one or more ingredients selected from the group consisting of  $\text{MgO}$ ,  ~~$\text{CaO}$~~ ,  $\text{SrO}$ ,  $\text{BaO}$  and  $\text{ZnO}$  in the total amount of 3 - 20%;

one or more ingredients selected from the group consisting of  $\text{Li}_2\text{O}$ ,  $\text{Na}_2\text{O}$  and  $\text{K}_2\text{O}$  in the total amount of 5 - 30%, wherein  $\text{Na}_2\text{O}$  is included within a range from 0 to 14.5% and

one or both of  $\text{Sb}_2\text{O}_3$  and  $\text{As}_2\text{O}_3$  in the total amount of 0 - 1%,

said glass being substantially free of  $\text{Al}_2\text{O}_3$ ,  $\text{CdO}$ ,  $\text{CaO}$  and  $\text{PbO}$ .

44. (previously presented) Glass as defined in claim 43 which has Young's modulus of 75GPa or over.

45. (previously presented) Glass as defined in claim 43 which has Vickers hardness of 550 or over.

46. (previously presented) Glass as defined in claim 43 wherein light transmittance for plate thickness of 10mm

is 90% or over within a wavelength range from 950nm to 1600nm.

47. (previously presented) A light filter which is made by forming a dielectric film on glass as defined in claim 43.

48. (currently amended) Glass for a light filter having a coefficient of thermal expansion within a range from from  $90 \times 10^{-7}/^{\circ}\text{C}$  to  $120 \times 10^{-7}/^{\circ}\text{C}$  within a temperature range from  $-20^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$  and having a composition which comprises, in weight percent:

one or more ingredients selected from the group consisting of  $\text{SiO}_2$ ,  $\text{B}_2\text{O}_3$  and  $\text{P}_2\text{O}_5$  in the total amount of 35 - 55%, wherein the upper limit of  $\text{SiO}_2$  is 41.5%;

one or more ingredients selected from the group consisting of  $\text{TiO}_2$ ,  $\text{La}_2\text{O}_3$ ,  $\text{ZrO}_2$ ,  $\text{Nb}_2\text{O}_5$ ,  $\text{Ta}_2\text{O}_5$ ,  $\text{WO}_3$  and  $\text{Y}_2\text{O}_3$  in the total amount of 20 - 45%, wherein  $\text{TiO}_2$  is included within a range from 0 to 30%;

one or more ingredients selected from the group consisting of  $\text{MgO}$ ,  ~~$\text{CaO}$~~ ,  $\text{SrO}$ ,  $\text{BaO}$  and  $\text{ZnO}$  in the total amount of 3 - 20%;

one or more ingredients selected from the group consisting of  $\text{Li}_2\text{O}$ ,  $\text{Na}_2\text{O}$  and  $\text{K}_2\text{O}$  in the total amount of 5 - 30%, wherein  $\text{Na}_2\text{O}$  is included within a range from 0 to 14.5%; and

one or both of  $\text{Sb}_2\text{O}_3$  and  $\text{As}_2\text{O}_3$  in the total amount of 0 - 1%,

said glass being substantially free of  $\text{CaO}$  and  $\text{CdO}$ .

49. (previously presented) Glass as defined in claim 48 which has Young's modulus of 75GPa or over.

50. (previously presented) Glass as defined in claim 48 which has Vickers hardness of 550 or over.

51. (previously presented) Glass as defined in claim 48

wherein light transmittance for plate thickness of 10mm is 90% or over within a wavelength range from 950nm to 1600nm.

52. (previously presented) Glass as defined in claim 48 which is substantially free of PbO.

53. (previously presented) A light filter which is made by forming a dielectric film on glass as defined in claim 48.

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